

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1522.00100004/MAC/LBB
First Inventor	HARRINGTON et al.
Title	ARTIFICIAL MAMMALIAN CHROMOSOME
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

 Assistant Commissioner for Patents
 Box Patent Application
 Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
 (Submit an original, and a duplicate for fee processing)

2. ☒ Applicant claims small entity status.
 See 37 CFR 1.27.

3. ☒ Specification [Total Pages 69]

(preference arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table,
 or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 20]

5. Oath or Declaration [Total Pages 2]

- a. ☐ Newly executed (original or copy)

- b. ☒ Copy from a prior application (37 CFR 1.63(d))
 (for continuation/divisional with Box 18 completed)

- i. ☐ **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s)
 named in the prior application, see 37 CFR §§
 1.63(d)(2) and 1.33(b).

6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program
 (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
 (if applicable, all necessary)

- a. ☐ Computer Readable Form (CRF)

- b. Specification Sequence Listing on:

- i. ☐ CD-ROM or CD-R (2 copies); or

- ii. ☐ paper

- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))

10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
 (when there is an assignee)

11. ☐ English Translation Document (if applicable)

12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
 Citations

13. ☒ Preliminary Amendment

14. ☒ Return Receipt Postcard (MPEP 503)
 (Should be specifically itemized)

15. ☐ Certified Copy of Priority Document(s)
 (if foreign priority is claimed)

16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach
 form PTO/SB/35 or its equivalent.

17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3) and Petition for
 Acceptance of Color Photographs Under 37 C.F.R. § 1.84(a)(2)

- ☒ Other: The name of the assignee is: Case Western Reserve University

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,
 or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: 08/643,554
 Prior application information: Examiner S Priebe Group/Art Unit: 1632

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is
 considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only
 relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

- ☒ Customer Number or Bar Code Label

Customer No. 26111

(Insert Customer No. or Attachment code label here)

- or ☐ Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.		
ADDRESS	Attorneys at Law		
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	

NAME (Print/Type)	Lawrence B. Bugaisky	Registration No. (Attorney/Agent)	35,086
SIGNATURE	<i>Lawrence B. Bugaisky</i>	Date	<u>Dec 19, 2002</u>

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$1,031.00)

Complete if Known

Application Number	To be assigned
Filing Date	Herewith
First Named Inventor	HARRINGTON et al.
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1522.0010004/MAC/LBB

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number 19-0036
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.

☐ Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17

☒ Applicant claims small entity status
See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☒ Other*
*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	\$ 370.00
102	330	206	165	Design filing fee	
107	510	207	285	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$370.00)

2. EXTRA CLAIM FEES

Total Claims	Extra	Fee from below	Fee Paid
23	-20** = 3	X 9	= \$27.00
Indep. Claims 15	-3** = 12	X 42	= \$504.00
Multiple Dependent			=

Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	260	204	140	Multiple dependent claim
106	84	206	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 531.00)

** or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	\$130.00
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	481	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify):

Other fee (specify):

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 130.00)

SUBMITTED BY

Name (Print/Type) Lawrence B. Bugalsky Registration No. (AB/only Agent) 35,086 Telephone 202-371-2600
Signature *Lawrence B. Bugalsky* Date Dec 19, 2001

Complete (if applicable)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SICP Rev. 10/01/01 msc



12/19/01

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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*LIMITED TO MATTERS
 AND PROCEEDINGS BEFORE
 FEDERAL COURTS & AGENCIES
 **REGISTERED PATENT AGENT
 ***SENIOR COUNSEL

December 19, 2001

WRITER'S DIRECT NUMBER:

(202) 371-2589

INTERNET ADDRESS:

LARRYB@SKGF.COM

BOX PATENT APPLICATION

Commissioner for Patents
 Washington, D.C. 20231

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
 (Continuation of U.S. Appl. No. 08/643,554; Filed: May 6, 1996)
 Appl. No. *To be assigned*; Filed: Herewith
 For: **Artificial Mammalian Chromosome**
 Inventors: Harrington *et al.*
 Our Ref: 1522.0010004/MAC/LBB

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
 Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17) (*in duplicate*);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05) (*in duplicate*);
3. U.S. Utility Patent Application entitled:

ARTIFICIAL MAMMALIAN CHROMOSOME



10023033-121901

Commissioner for Patents
December 19, 2001
Page 2

and naming as inventors:

John J. HARRINGTON
Gil B. VAN BOKKELEN
Huntington F. WILLARD

the application consisting of:

- a. A specification containing:
 - i. 56 pages of description prior to the claims;
 - ii. 12 pages of claims (58 claims);
 - iii. a one (1) page abstract;
 - b. Petition for Acceptance of Color Photographs Under 37 C.F.R. § 1.84(a)(2) (*in duplicate*);
 - c. 20 sheets of formal drawings: (Figures: 1A, 1B (photo), 2, 3A-3D (color photos - 3 copies of 1 sheet), 4A-4D (color photos - copies of 1 sheet), 5A-5D (color photos - 3 copies of 1 sheet), 6A (photo), 6B, 7A-7D (color photos - 3 copies of 1 sheet) and 8A-8B (color photos - 3 copies of 1 sheet);
 - d. Photocopies of color drawings;
 - e. A copy of the executed Declaration, as filed in U.S. Appl. No. 08/643,554;
 - f. Application Data Sheet;
 - g. SKG&F Check No. 33573 for \$1,031.00 to cover \$370.00 filing fee for patent application, \$27.00 fee for excess claims, \$130.00 fee for petition and \$504.00 fee for excess independent claims;
4. Preliminary Amendment;

Commissioner for Patents

December 19, 2001

Page 3

5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (*in duplicate*); and
6. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Lawrence B. Bugaisky
Attorney for Applicants
Registration No. 35,086

LBB/ybh

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SKGF ver.6/20/00 mac

10023037.121001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

HARRINGTON *et al.*

Appl. No. *To be assigned*

Filed: Herewith

For: **Artificial Mammalian
Chromosome**

Confirmation No. *To be assigned*

Art Unit: *To be assigned*

Examiner: *To be assigned*

Atty. Docket: 1522.0010004/MAC/LBB

**Petition for Acceptance of Color Photographs
Under 37 C.F.R. § 1.84(a)(2)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

Filed concurrently herewith is a Letter to the Official Draftsman forwarding 20 sheets of formal drawings (Figure 1A [1 sheet], Figure 1B [1 sheet], Figure 2 [1 sheet], Figures 3A-3D [1 sheet - 3 copies], Figures 4A-4D [1 sheet - 3 copies], Figures 5A-5D [1 sheet - 3 copies], Figure 6A [1 sheet], Figure 6B [1 sheet], Figures 7A-7D [1 sheet - 3 copies] and 8A-8B [1 sheet - 3 copies] for the above-captioned application and requesting that these formal drawings be entered.

Figures 3A-3D [1 sheet], Figures 4A-4D [1 sheet], Figures 5A-5D [1 sheet], Figures 7A-7D [1 sheet] and Figures 8A-8B [1 sheet] submitted herewith are color photographs. Applicants petition for acceptance of Figures 3A-3D [1 sheet], Figures 4A-4D [1 sheet], Figures 5A-5D [1 sheet], Figures 7A-7D [1 sheet] and 8A-8B [1 sheet] as color formal figures. It is necessary to present Figures 3A-3D [1 sheet], Figures 4A-4D [1 sheet], Figures 5A-5D [1 sheet], Figures 7A-7D [1 sheet] and 8A-8B [1 sheet] in color because the staining patterns in the figures would not be readily evident in a black and white photograph. Additionally, Figure 5D has a yellow arrow and the brief description of the figures refers to this yellow arrow.

Three (3) copies of each color photograph are submitted herewith. Also, the specification has been amended to include the language recited in 37 C.F.R. § 1.84(a)(iv).

Accordingly, Applicant(s) hereby petition that color Figures 3A-3D [1 sheet], Figures 4A-4D [1 sheet], Figures 5A-5D [1 sheet], Figures 7A-7D [1 sheet] and 8A-8B [1 sheet] be accepted. Early written notice of acceptance of this petition is earnestly solicited.

Additionally, pursuant to 37 C.F.R. 1.84(a)(iii), Applicants submit a black and white photocopy that accurately depicts, to the extent possible the subject matter shown in the color photographs.

The petition fee (37 C.F.R. § 1.17(i)) is provided by our check no. 33573. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this Petition is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Lawrence B. Bugaisky
Attorney for Applicants
Registration No. 35,086

Date: Dec 19 2007

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